

CLAIMS:

1. A structure for forming a vertically orientated wall comprising:
a flexible front panel having a longitudinal axis, a transverse axis and substantially continuous front surface;
a flexible rear panel positioned rearwardly and parallel to the front panel;
a plurality of cross members connecting said front panel and said rear panel, said front and rear panels defining an upwardly opening cavity therebetween for accepting filler material therein, said rear panel including at least one longitudinally disposed laterally deformable portion which allows for the associated deforming of the rear panel during adjusting of the arcuate configuration of the structure.
2. A structure as recited in claim 1 wherein said at least one longitudinally disposed deformable portion is laterally expandable which allows for the lateral expansion of said rear panel as the structure is configured to form a concave front wall.
3. A structure as recited in claim 2 wherein said at least one longitudinally disposed laterally deformable expandable portions is also laterally contractable which thereby further allows for the lateral contraction of said rear panel as the structure is arcuately configured rearwardly to form a convex front wall.
4. A structure as recited in claim 2 wherein said longitudinally disposed deformable laterally expandable portions each comprises opposing channel edge sections defining a longitudinally extending rearwardly facing channel.
5. A structure as recited in claim 4 wherein said opposing channel edge sections of each channel section are positioned adjacent each other when said wall structure is in a straight configuration.
6. A structure as recited in claim 3 wherein said longitudinally disposed

deformable laterally expandable and contractable portions each comprises opposing channel edge sections defining a longitudinally extending rearwardly facing channel, said opposing channel edge sections of each channel being spaced apart from each other when said wall structure is in a straight configuration, thereby allowing the distance between said opposed channel sections to contract as the wall is formed into a convexly configured front wall and to expand as the wall is formed into a concavely configured front wall.

7. A structure as recited in claim 3 wherein said deformable laterally expandable and contractable portions each comprises a longitudinally disposed zig-zag pattern formed in said rear panel.

8. A structure as recited in claim 1 wherein said cross members comprise a plurality of parallel vertically extending regular spaced webs extending perpendicularly to and between said front and rear panels.

9. A structure as recited in claim 8 wherein each said web defines a plurality of openings therethrough.

10. A structure as recited in claim 9 wherein said openings are regular spaced along the length of each web.

11. A structure as recited in claim 1 wherein each said cross member defines a hollow space therein.

12. A structure as recited in claim 1 wherein said cross members each comprise a receiving member defining a hollow space therein attached to either said front panel or rear panel and a mating member secured to the opposite panel adapted to be inserted and secured in said receiving member.

13. A structure as recited in claim 12 wherein the cumulative space within the cross members comprises between 15% and 60% of the total space within the

cavity, thereby substantially reducing the amount of filler material required to be poured into the cavity.

14. A structure as recited in claim 13 wherein the cumulative space within the hollow members comprises 30% of the cumulative space within the cavity.

15. A structure as recited in claim 1 wherein at least one horizontal strap member is secured laterally across said structure, securing the structure in a straight or an arcuate configuration.

16. A structure as recited in claim 1 wherein said structure is formed of polypropylene.

17. A structure as recited in claim 1 wherein said filler material is selected from the group consisting of concrete, sand, foam, gravel.

18. A structure as recited in claim 2 wherein said expandable portions are positioned between said cross members.

19. A structure as recited in claim 1 comprising a plurality of expandable portions.

20. A structure as recited in claim 1 wherein said front panel has side edge portions and a rearwardly extending longitudinal member extending along each side edge portion, and a vertical extrusion defining a groove therein into which the longitudinal members of adjacent wall structures may be inserted and secured thereby securing adjacent wall structures together.